

Master program in Cancer Biology

Internship proposal form 2024

MASTER 1

MASTER 2

Title	Caracterization of CB-6644 activity in colorectal cancer
Host laboratory	Regulation of Gene Expression
Name of the PI	Dominique Helmlinger
Supervisor	Bérengère PRADET-BALADE
E-mail- Contact	pradet@crbm.cnrs.fr
Description (10 lines)	RUVBL1/2 is part of chromatin remodelers and cytoplasmic chaperones. CB-6644 is an efficient inhibitor of RUVBL1/2 ATPase activity. We recently found that CB-6644 is cytotoxic in preclinical models for a very aggressive subtype of colorectal cancer. Now, in collaboration with chemists, we derive new tools from CB-6644. The Master student will use these tools for affinity-purifications of proteins or mRNAs (as detected by WB, MS and qPCR, respectively), and immuno-fluorescence experiments, in colorectal cancer cell lines. These will provide a comprehensive understanding of RUVBL1/2 activity, a key question in basic and translational biology.
Duration (2 to 6 months)	6 months